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KIANGNAN NAVAL SHIPYARD SHANGHAI, CHINA

PIC/JR-18/59 NOVEMBER 1959

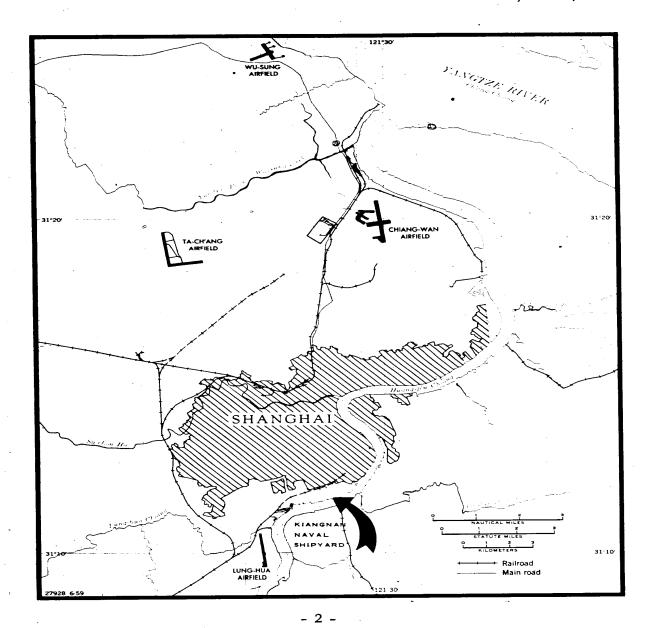
Declassification Review by NIMA/DoD

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KIANGNAN NAVAL SHIPYARD SHANGHAI, CHINA

The Kiangnan Naval Shipyard, one of the largest shipyards in Communist China, occupies 137 acres on the west bank of the Huang-Pu River in southeast Shanghai (see Figure 1). Facilities at this shipyard include three graving docks (630', 555', and 520' long) and seven shipbuilding ways, measuring from 260' to 480' in length. This major shipbuilding facility is capable of constructing passenger vessels up to 7,800 tons gross, cargo vessels up to 6,500 tons gross, and naval vessels, including submarines, up to 4,000 tons naval standard displacement.

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Kiangnan Naval Shipyard has undergone considerable expansion and modernization since the excellent previous photo cover of (see Figure 2). At least 85 new buildings were constructed between some of these buildings were either constructed as temporary structures, or sudden changes in planning were implemented, for at least 18 of these new buildings were dismantled or moved between During this same period, six older buildings also were dismantled and 15 additional new buildings were completed. In addition, a new building way (Figure 2, Item 27) and approaches to an offshore wharf (Figure 2, Item 11) were completed.

Changes appear to have been made in the function of several of the major components of the shipyard. Previously reported storage facilities appear now to have an engineering or fabrication connotation. Especially is this so in the extreme northwestern corner (Figure 2, Area A-1) of the shipyard where recent major changes have taken place, and also in the north-central portion (Figure 2, Area A-2) where the largest building (Figure 2, Item 21) in the shipyard has been completed recently.

- 3 - 25X1A

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FIGURE 1. KIANGNAN NAVAL SHIPYARD.

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The poor quality and lack of stereo coverage of the photography preclude a detailed description of this recent expansion, other than to detect the presence or absence of relatively large buildings. The photography does not permit an accurate ship count, but the following vessels were observed at this shipyard on submarines ("W" Class),* 240' long; one PF (ex-Japanese Kaibokan #2 Class),* long; 6 dry cargo ships,* 400', 350', 230', 220', 200', and 170' long; 2 dry cargo ships, 430' and 380' long; one tanker, 470' long; 10 river craft, 350', 245' (two), *180' (two), 155' (two), 145', 95', and 65' long: one railroad ferry, 390' long: 2 tugs, 65' and 70' long: 3 self-propelled barges, 140', 135', and 80' long: 2 floating jib cranes: one floating repair shop, 50' x 20', on a barge 100' long.

KEY TO ANNOTATIONS

•	A-1	Shiph	ouilding Area (Fitting Out)	25X1D	05)/45	÷
•		1.	Storage building, 110' x 60'.	23/10	25X1D	
	25)	2. (1D	Two shop/storage buildings, 105' x 60 storage building, 100' x 35' completed Six other buildings in vi	between	and	05)/45
25X1D			between	- \$		25X1D
	٠	3.	Probable shop building, 365' x 90' (co	ompleted	between	-
25X′	- 1D	4.	Two storage buildings, 60' x 25', 30 buildings in vicinity were dismantled	0' x 20'. between	Three other and	25X1D
	טו	5.	Two workshops, 100' x 30', 80' x 65', and 55' x 50', 70' x 35', 70' x 40', 50' x 30' buildings in vicinity were dismantled	', 80' x 2 <u>0</u>	age buildings, 2 '. Two other	25X1D
25X1	D		- verification		,	

^{*}On building ways or in graving docks.

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- 6. Two workshops, 70' x 35', 65' x 30', and six storage buildings 70' x 35', 45' x 25', 35' x 30', 50' x 20', 50' x 25', 85' x 60'.

 One other building in vicinity was dismantled between
 - 7. Three storage buildings, 100' x 90', 100' x 40', 80' x 60'.
 - 8. Five workshops, 120' x 95', 90' x 55', 80' x 60', 35' x 35', 45' x 40'.
 - 9. Four workshops, 160' x 145' with several small attached buildings; 125' x 25' with two small wings; 65' x 25', 70' x 25'.
 - 10. Two buildings dismantled between

11. New offshore wharf, 530' x 40', with portal jib crane. Three of four approaches were completed between At least five ships were tied to wharf on photography, indicating this wharf is Probably being used 25X1D

photography, indicating this wharf is probably being used for fitting-out operations. West of wharf are two piers, 70' x 10' and 65' x 10'.

A-2 Shipbuilding Area (Assembly and Repair)

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25X1D

- 12. Four workshops, 45' x 25', 80' x 45' with wing, 60' x 50', 80' x 30', 230' x 45' with attached section 45' x 35'; and one workshop 80' x 30' completed between
 - 13. Two storage buildings, each 120' x 45' and one storage building, 130' x 80', with a 90' x 35' section which was completed between 25X1D
 - 14. Probable fabrication building, 250' x 140'.
 - 15. Two storage buildings, 85' x 45', 145' x 60'.
 - 16. Mold loft and fabrication building, 225' x 45' with wing 120' x 45' and several adjacent service buildings having total roof area of 13,000 sq. ft.
 - 17. Naval ordnance building, 135' x 45' and adjacent oxygen plant, 85' x 60'.
 - 18. Three workshops, 130'x 45', 70' x 45', 110' x 55'; one workshop, 155' x 55' completed between and one storage building, 130' x 35'.
 - 19. Reported electric power substation. Image on photography does not resemble usual power substation. Function of the two small buildings within the fenced area cannot be determined from present photography.

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- 20. Seven workshops with total roof area of 24.500 sq. ft. One 50' section was completed between
 21. Probable fabrication building 325' x 325', completed between with older adjoining administration section, 280' x 35'.
 22. Plate shop, 410' x 130', with wing, 155' x 70' and adjoining air compressor building, 55' x 55'.
 25. Five workshops, 130' x 30', with wing 60' x 50', 100' x 60', 100' x 50', 100' x 60', 100' x 50', 100' x 50', 100' x 60', 100' x 50', 100' x 50', 100' x 60', 100' x 50', 100' x 50', 100' x 60', 100' x 50', 100' x 50', 100' x 60', 100' x 50', 100' x 50', 100' x 60', 100' x 50', 100' x 60', 100' x 50', 100'
- Five workshops, 130' x 30', with wing 60' x 50', 100' x 60', 50' x 40', 60' x 50', 60' x 50'. One other building in vicinity (reported as welding shop) was dismantled between and
 - 24. Workshop, 300' x 80', with adjacent storage building, 75' x 25'.
 - 25. Two shipbuilding ways, each approximately 350' long, with portal jib crane between them.
 - 26. Three shipbuilding ways, each approximately 350' long, and screened from river by fence. Four small cranes in yard.
- 25X1D 27. New shipbuilding way, approximately 440' long, completed between and and completed and com
 - 28. Craneway, possibly 1,000' long, with one portal jib crane having a reported capacity of 40 tons.
 - 29. Shipbuilding way, approximately 480' long.

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- 30. Two marine railways, 360' and 260' long.
- 31. Three workshops, 75' x 45', 45' x 30', 35' x 35'.
- 32. Drydock No. 3, 630' x 80', coping width 105'.
- 33. Seven workshop/storage buildings with total roof area of 18,500 sq. ft.
- 34. Drydock No. 2, 555' x 60', coping width 100'.
- 35. Steam power plant, 145' x 35', adjoining shop, 100' x 50', and small coal yard, 90' x 55'.
- 36. Pump house, 90' x 40' and adjacent shops, with total roof area of 5,200 sq. ft.
- 37. Drydock No. 1, 520' x 60', coping width 85'.
- 38. Workshop area, many small buildings with total roof area of 31,900 sq. ft.
- 39. Two workshops, 90' x 35', 130' x 50'.

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Metalworking and blacksmith shop, 470' x 115'.

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- 41. Machine shop and apprentice school, 470' x 150'.

 42. Five workshops, one irregular shape with total roof area of 2,700 sq. ft., two are 55' x 25' and 95' x 25'. Other two, approximately 60' x 40' and 90' x 35', were completed between
 - Adjacent offshore wharf, 675' x 25', is probably being used for fitting-out operations.

 43. Diesel engine repair shop, 145' x 75', with two adjoining sections, 50' x 30' and 85' x 20'. Three other buildings in vicinity were dismantled between Possible new construction activity is detectable on

44. Storage building, 135' x 55' with small fenced yard.

- 45. Three workshops, 85' x 75', 65' x 30', 55' x 30'.
- 46. Foundry and pattern shop, irregular shape, with total roof area of 50,120 sq. ft., and adjacent workshop, 100' x 30'.
- 47. Two storage buildings 75' x 45', 55' x 35'.
- 48. Electric shop, irregular shape, with total roof area of 9,000 sq. ft., and workshop, irregular shape, with total roof area of 14,600 sq. ft.
- 49. Fabrication building, irregular shape, with total roof area of 21,700 sq. ft. and adjoining/shop, 75' x 60'.

B. Woodworking Area

photography.

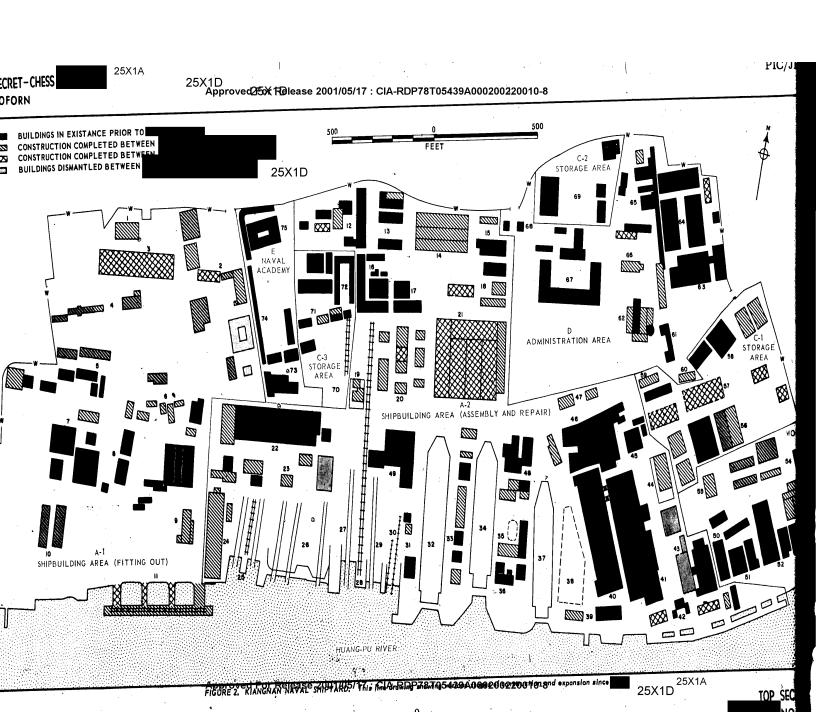
40.

- 50. Three lumber storage buildings, 150' x 45', 130' x 25', 75' x 35'.
- 51. Workshop, 100' x 75', with adjacent storage building, 110' x 45'.
- 52. Saw mill, 230' x 70', and adjacent storage building 100' x 40' with attached shed, 75' x 20'.
- 53. Workshop, 110' x 40', with wing 40' x 15', and adjacent storage building, irregular shape with total roof area of 14,000 sq. ft.
- 54. Two lumber storage buildings, 100' x 40', 100' x 35'. Three other buildings in vicinity dismantled between 25X1D

55. Lumber storage building, 85' x 40'.

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- 8 -



PIC/JR-18/59

Storage Area C-1

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- Four storage buildings, 80' x 65', 80' x 65', 160' x 105',25X1D 150' x 55', with adjoining similar building dismantled between
- Four probable storage buildings completed between approximately 140' x 60', 175' x 100', 57. 75' x 65', 55' x 55'.
- Four storage buildings, 80' x 55', 100' x 80', 100' x 60', 58. 100' x 60'.
- Two storage buildings, 100' x 35', 135' x 35'. 59.

Administration Area D

- Barracks, 65' x 35'. 60.
- East gate house, 130' x 20', with two wings each 30' x 15'. 61.
- Water tower, 25' diameter, and associated service buildings, irregular shape, with total roof area, 10,500 sq. ft. 62.
- Barracks, 195' x 80' with two attached service buildings, 170' x 40', 135' x 45'. 63.
- Three reported barracks, each 195' x 80'. Size and design are not typical of Chinese barracks. Two adjacent service buildings, 45' x 35', and approximately 75' x 35'. The latter 25X1D 64. was completed between
- Five storage buildings, $80' \times 30'$, $50' \times 35'$, $90' \times 45'$ with wing $30' \times 15'$, $80' \times 20'$, $50' \times 50'$ with adjoining section $60' \times 15'$. Also adjoining are two storage sheds, $460' \times 20'$, $175' \times 30'$. **∡**,65.
- Two administration buildings, 135' x 30', 90' x 40' with wing 25X1D 20' x 20'; and one new administration building, approximately 105' x 35'. The latter was completed between 66. 25X1D
 - Main administration building, 290' x 50' with two wings each 110' x 50', and three service buildings, 60' x 20', 80' x 20', 67. 120' x 40' with wing 80' x 40'.
 - Two gate houses, each 45' x 35'. 68:

Storage Area C-2

 $65' \times 60'$ with adjoining section 50' \times 20'. 69.

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C-3 .Storage Area

- 70. Open storage area with probable traveling crane.
- 71. Eight storage buildings, 75' x 40', 60' x 35', 170' x 55', 40' x 40', 50' x 35', 65' x 55', 85' x 75', 80' x 30'.
- 72. Vehicle repair shop and storage building, $100' \times 25'$, with two wings, $155' \times 25'$, $155' \times 20'$.

E Naval Academy

- 73. Four academy buildings, 75' x 40', 130' x 35', 75' x 45', 115' x 35' with wing 95' x 20', and adjoining section, 85' x 30'.
- 74. Shed, 370' x 15'.
- 75. Student officers' quarters, 145' x 100' with adjacent shed, 340' x 20'.

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REQUIREMENT: This Joint Photographic Intelligence Report has been prepared by Navy and CIA in partial answer to Navy requirement DNI 71-58 and in response to CIA requirement RR/E/R122/58, requesting an analysis of Kiangnan Naval Shipyard, Shanghai, China.

PHOTO DATA:

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MAP DATA:

ATMP 0492-9999-12-25MA, 2nd Ed., Oct 56. (S) 0492-9999-100, 2nd Ed., Oct 56. (S)

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COORDINATES: 31°12'N/121°29'E

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- 13 -

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